

# SAFETY DATA SHEET

according to Regulation No. 1907/2006 of the European Parliament and of the Council, as subsequently amended

## TONGO Washing powder

Date of revision:

05. 05. 2021

Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Product Name**

**TONGO Washing powder**

**UFI code**

UFI: U820-Y0FQ-8001-0WA5

**Product code**

VBZPTXXX97

**Mixture description**

Mixture of chemical substances.

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses**

Washing powder for washing clothes in households and in industry.

**Uses advised against**

Not known. It is recommended to use it only for the intended use. Other uses may expose users to unpredictable risks.

#### 1.3. Details of the supplier of the safety data sheet

**CORMEN s.r.o.**

Průmyslová 1420

593 01 Bystřice nad Pernštejnem

Czech Republic

Tel.: +420 566 550 961

Fax: +420 566 551 822

e-mail address for a competent person responsible for the SDS: [info@cormen.cz](mailto:info@cormen.cz)

#### 1.4. Emergency telephone number

112 (General emergency phone).

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

The mixture is classified as **hazardous** according to regulation 1272/2008/EC.

**Classification according to 1272/2008/EC**

**Skin Irrit. 2; H315**

**Eye Dam. 1; H318**

Full text of classifications and H-phrases: see section 16.

**The most important adverse physical, human health and environmental effects**

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Causes skin irritation. Causes serious eye damage.

### 2.2. Label elements

#### Hazard pictograms



#### Signal word

Danger.

#### Substances of the mixture to be placed on the label

Contains Sodium percarbonate, Disodium metasilicate pentahydrate.

#### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

#### Precautionary statements

P102 Keep out of reach of children.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### Supplemental hazard information

EUH208 - Contains Subtilisin. May produce an allergic reaction.

Composition according to regulation 648/2004/EC on detergents:  $\geq 5$  -  $< 15$  % oxygen-based bleaching agents,  $< 5\%$  non-ionic surfactants, anionic surfactants, soap, polycarboxylates, perfumes, optical brighteners, enzymes.

### 2.3. Other hazards

Mixture do not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH regulation. Mixture do not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### 3.2.1. Substances of a mixture classified as hazardous

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Identification of substance		Content wt. %	Classification according to 1272/2008/EC
<b>Sodium carbonate</b>			
CAS Number	497-19-8	< 21	Eye Irrit. 2; H319
EC Number	207-838-8		
Index Number	011-005-00-2		
Registration Number	01-2119485498-19-XXXX		
<b>Disodium carbonate, compound with hydrogen peroxide (2:3); Sodium percarbonate</b>			
CAS Number	15630-89-4	< 7.5	Ox. Sol. 3; H272 Acute Tox. 4; H302 Eye Dam. 1; H318
EC Number	239-707-6		
Index Number	not given		
Registration Number	01-2119457268-30-XXXX		
The substance has specific concentration limits:			
Eye Dam. 1; H318	C ≥ 25 %		
Eye Irrit. 2; H319	7.5 % ≤ C < 25 %		
<b>Disodium metasilicate pentahydrate</b>			
CAS Number	10213-79-3	< 2.5	Met. Corr. 1; H290 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335
EC Number	229-912-9		
Index Number	014-010-00-8		
Registration Number	01-2119449811-37-XXXX		
The classification is for anhydride.			
<b>Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)</b>			
CAS Number	68439-50-9	< 2.0	Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M=1
EC Number	500-213-3		
Index Number	not given		
Registration Number	01-2119487984-16-XXXX		
<b>Sodium metaborate</b>			
CAS Number	7775-19-1	< 0.25	Eye Irrit. 2; H319 Repr. 2; H361d
EC Number	231-891-6		
Index Number	not given		
Registration Number	not yet available		
<b>Subtilisin</b>			
CAS Number	9014-01-1	< 0.15	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Resp. Sens. 1; H334 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M=1
EC Number	232-752-2		
Index Number	647-012-00-8		
Registration Number	01-2119480434-38-XXXX		
Full text of classifications and H-phrases: see section 16.			

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### SECTION 4: First aid measures

In all cases keep the victim at physical and mental rest and warm. In case of doubt or if symptoms persist, seek medical attention. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Protect yourself during rescue work.

#### 4.1. Description of first aid measures

##### **Inhalation**

Interrupt the exposure, move the person to the fresh air. In case of persistent nausea, seek medical advice.

##### **Skin contact**

Remove contaminated clothing, shoes, and wash affected skin thoroughly with water (preferably lukewarm) and soap. Do not use solvents or thinners. If the problem persists, seek medical advice.

##### **Eye contact**

Rinse with a gentle stream of water for at least 15 minutes. Keep your eyelids wide open with your thumb and forefinger. If the affected person is wearing contact lenses, remove them before rinsing eyes if it is easy. Seek medical advice.

##### **Ingestion**

Rinse your mouth and then drink plenty of water. Do not induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Seek medical advice.

#### 4.2. Most important symptoms and effects, both acute and delayed

Are not known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

###### Small fire:

Carbon dioxide CO<sub>2</sub>, dry extinguishing agent, sand or earth, alcohol-resistant foam.

###### Extensive fire:

Fragmented water streams (water mist), alcohol-resistant foam.

##### **Unsuitable extinguishing media**

Solid streams of water may be ineffective.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire extinguishing prevent leakage of water and rest of product into drains. Collect them separately and dispose of safely in accordance with current legislation and applicable local regulations.

In case of fires, hazardous combustion gases are formed: carbon oxides, silicon oxides, boron oxides and products of incomplete combustion.

#### 5.3. Advice for firefighters

Stop further leakage of product if possible. Spilled product, which does not burn, cover with sand or foam. Move containers and barrels away from the fire to a safe place, if possible. Cool all affected containers down with flooding quantities of water. If the fire can't be extinguished - evacuate the premises.

In case of fire, wear suitable respiratory protective equipment and fire-fighting suit.

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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes, use suitable protective equipment and clothing, see Section 8. Ensure adequate ventilation. Avoid formation of vapour and aerosol. At the point of leakage, prevent the movement of unauthorized persons.

#### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. If this cannot be avoided, inform the competent authorities (police and firefighters) immediately.

#### 6.3. Methods and material for containment and cleaning up

Take up mechanically, place in appropriate containers for disposal and dispose of according to Section 13, unless it can be reused. Flush residues with water and collect it for waste disposal.

If container is damaged, remove the content to the new undamaged container and label it properly again.

#### 6.4. Reference to other sections

Refer also to the provisions of sections 7, 8 and 13 of this safety data sheet.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Personal protection see. Section 8. Ensure good ventilation to prevent formation of vapour and aerosol.

Smoking, eating and drinking should be prohibited at the place of use. Keep safety regulations for handling chemicals. Take off contaminated clothing and protective equipment before entering the dining area. Do not use dirty clothing. After work wash yourself carefully with warm water and soap, take a shower. Use protective cream.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in original, tightly closed containers, in a dry, cool and well-ventilated place at room temperature.

Do not store together with incompatible materials (see subsection 10.5), food, drink and feed.

#### 7.3. Specific end use(s)

See section 1.2.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Exposure limit value

Not determined.

##### 8.1.2. Biological limit values

Not determined in EU.

##### 8.1.3. DNEL and PNEC values

Sodium carbonate CAS: 497-19-8

#### DNEL

Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	10 mg/m <sup>3</sup>

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General population	Inhalation	Local effect	Acute/short term	10 mg/m <sup>3</sup>
<b>PNEC – not yet available</b>				
<b>Disodium carbonate, compound with hydrogen peroxide (2:3)</b>				CAS: 15630-89-4
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	5 mg/m <sup>3</sup>
Workers	Dermal	Local effect	Long term	12.8 mg/cm <sup>2</sup>
Workers	Dermal	Local effect	Acute/short term	12.8 mg/cm <sup>2</sup>
General population	Dermal	Local effect	Long term	6.4 mg/cm <sup>2</sup>
General population	Dermal	Local effect	Acute/short term	6.4 mg/cm <sup>2</sup>
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
0.035 mg/l	0.035 mg/l	0.035 mg/l	not given	16.24 mg/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
not given	not given	not given	not given	not given
<b>Disodium metasilicate</b>				ES: 229-912-9
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	6.22 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	1.49 mg/kg/day
General population	Inhalation	Systemic effect	Long term	1.55 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	0.74 mg/kg/day
General population	Oral	Systemic effect	Long term	0.74 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
		Fresh water	Marine water	
7.5 mg/l	1 mg/l	7.5 mg/l	not given	1 000 mg/l
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
no effect	no effect	no effect	no effect	no effect
<b>Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)</b>				CAS: 68439-50-9
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Systemic effect	Long term	294 mg/m <sup>3</sup>
Workers	Dermal	Systemic effect	Long term	2 080 mg/kg/day



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General population	Inhalation	Systemic effect	Long term	87 mg/m <sup>3</sup>
General population	Dermal	Systemic effect	Long term	1 250 mg/kg/day
General population	Oral	Systemic effect	Long term	25 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
0.074 mg/l	0.007 mg/l	Fresh water	Marine water	10 g/l
0.004 mg/l	0 mg/l			
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
66.67 mg/kg	6.66 mg/kg	no effect	1 mg/kg	no effect
<b>Subtilisin</b>				CAS: 9014-01-1
<b>DNEL</b>				
Area of use	Route of exposure	Effect	Exposure time	Value
Workers	Inhalation	Local effect	Long term	60 ng/m <sup>3</sup>
General population	Inhalation	Systemic effect	Long term	15 ng/m <sup>3</sup>
General population	Oral	Systemic effect	Long term	1.8 mg/kg/day
General population	Oral	Systemic effect	Acute/short term	3.6 mg/kg/day
<b>PNEC</b>				
Fresh water	Marine water	Intermittent releases		Sewage Treatment Plant (STP)
0.074 mg/l	0.007 mg/l	Fresh water	Marine water	10 g/l
0.004 mg/l	0 mg/l			
<b>PNEC</b>				
Sediment (freshwater)	Sediment (marine water)	Air	Soil	Hazard for predators
66.67 mg/kg	6.66 mg/kg	no effect	1 mg/kg	no effect
<b>8.2. Exposure controls</b>				
<b>8.2.1. Appropriate engineering controls</b>				
Use only in well-ventilated areas.				
Observe usual safety precautions for working with chemicals. The degree of effectiveness of personal protective equipment depends on temperature and ventilation levels.				
<b>8.2.2. Individual protection measures, such as personal protective equipment</b>				
Do not eat, drink or smoke. After work, wash thoroughly with warm water and soap and take a shower. Use protective cream. Do not soiled protective equipment to wash, do not use solvents.				
<b>Eye/face protection</b>				
Wear safety goggles when manufacturing and handling the product. They are not necessary when used by the consumer.				
<b>Skin protection - hand protection</b>				

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Wear protective gloves when manufacturing and handling the product. They are not necessary when used by the consumer.

The selection of the glove material on consideration of the breakthrough time, permeability, degradation and next relevant factors; other chemicals that may come into contact, physical requirements (cut and puncture protection, dexterity, thermal protection), possible body reactions to the glove material and the glove supplier's instructions and specifications. In case of repeated use of gloves, clean and keep them in a well-ventilated place before taking off.

### **Skin protection - other**

In normal use is not necessary, in case of prolonged contact with the product, wear protective work clothes and shoes.

### **Respiratory protection**

Not necessary in case of compliance concentration limits (if they were exceeded, use a respirator against solid particles). In the event of an accident or a fire use self-contained breathing apparatus.

### **Thermal hazards**

In normal use is not necessary protective equipment to be worn for materials that represent a thermal hazard.

### **8.2.3. Environmental exposure controls**

Uncontrolled release of the mixture into environment is to be avoided. Keep the emission limits according to national legislation.

## SECTION 9: Physical and chemical properties

### **9.1. Information on basic physical and chemical properties**

#### **Mixture**

<b>Physical state</b>	Solid.
<b>Colour</b>	According to pigment.
<b>Odour</b>	Characteristic.
<b>Melting point/freezing point</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	Not determined.
<b>Lower explosion limit</b>	Does not apply to solid.
<b>Upper explosion limit</b>	Does not apply to solid.
<b>Flash point</b>	Does not apply to solid.
<b>Auto-ignition temperature</b>	Does not apply to solid.
<b>Decomposition temperature</b>	Not determined, the mixture does not contain self-reactive substances or organic peroxides.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	Soluble.
<b>Partition coefficient n-octanol/water (log value)</b>	Does not apply to mixture.
<b>Vapour pressure</b>	Not determined, the mixture does not contain volatile compounds.



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<b>Density and/or relative density</b>	Not determined.
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.
<b>Sodium carbonate</b>	CAS: 497-19-8
<b>Physical state</b>	Solid.
<b>Colour</b>	White.
<b>Odour</b>	Odourless.
<b>Melting point/freezing point</b>	851 °C (decomposition, literature).
<b>Boiling point or initial boiling point and boiling range</b>	Not determined, substance decomposes.
<b>Flammability</b>	The substance is not classified as flammable (EU method A.10).
<b>Lower explosion limit</b>	Does not apply to solid.
<b>Upper explosion limit</b>	Does not apply to solid.
<b>Flash point</b>	Does not apply to solid.
<b>Auto-ignition temperature</b>	Does not apply to solid.
<b>Decomposition temperature</b>	> 400 °C (literature).
<b>pH</b>	cca. 11.6 (ca. 0.1 M solution, literature).
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	ca. 212.5 g/l (20 °C, pH > 11, OECD 105).
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined, it is an inorganic substance.
<b>Vapour pressure</b>	Not determined, the substance has melting point higher than 300 °C.
<b>Density and/or relative density</b>	$D_4^{20} = 2.52 - 2.53$ (OECD 109).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	D10 = 44 µm (OECD 110). D50 = 133 µm (OECD 110). D90 = 257 µm (OECD 110).
<b>Disodium carbonate, compound with hydrogen peroxide (2:3)</b>	CAS: 15630-89-4
<b>Physical state</b>	Solid.
<b>Colour</b>	White.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
<b>Lower explosion limit</b>	Does not apply to solid.

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<b>Upper explosion limit</b>	Does not apply to solid.
<b>Flash point</b>	Does not apply to solid.
<b>Auto-ignition temperature</b>	Does not apply to solid.
<b>Decomposition temperature</b>	Not determined.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	140 g/l (20 °C, pH = 10.4 - 10.6).
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined, it is an inorganic substance.
<b>Vapour pressure</b>	Not determined.
<b>Density and/or relative density</b>	$D_4^{20} = 2.01$ (EU method A.3).
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	D50 = 250 - 1 000 µm.
<b>Disodium metasilicate</b> ES: 229-912-9	
<b>Physical state</b>	Solid.
<b>Colour</b>	Colourless to white.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	1 089 °C (literature).
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
<b>Lower explosion limit</b>	Does not apply to solid.
<b>Upper explosion limit</b>	Does not apply to solid.
<b>Flash point</b>	Does not apply to solid.
<b>Auto-ignition temperature</b>	Does not apply to solid.
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	210 g/l (20 °C, pH = 12.7).
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined, it is an inorganic substance.
<b>Vapour pressure</b>	Not determined, the substance has melting point higher than 300 °C.
<b>Density and/or relative density</b>	2.61 g/cm <sup>3</sup> (literature).
<b>Relative vapour density</b>	Does not apply to solid.

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<b>Particle characteristics</b>	D10 = 397 µm (ISO 13320-1). D50 = 695 µm (ISO 13320-1). D90 = 1 150 µm (ISO 13320-1).
<b>Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)</b>	CAS: 68439-50-9
<b>Physical state</b>	Liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Rancid.
<b>Melting point/freezing point</b>	5.55 °C (EU method A.1)
<b>Boiling point or initial boiling point and boiling range</b>	266.95 °C (EU method A.2)
<b>Flammability</b>	The substance is not classified as flammable, pyrophoric or emit flammable gases under standard conditions.
<b>Lower explosion limit</b>	Not determined.
<b>Upper explosion limit</b>	Not determined.
<b>Flash point</b>	151 °C (ISO 2719)
<b>Auto-ignition temperature</b>	255 °C (EU method A.15)
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Not determined, it is not a hydrocarbon or a chlorinated hydrocarbon.
<b>Solubility</b>	35 - 63 mg/l (25 °C, pH = 6 - 7, application of 100 mg/l, ASTM E1148 - 02). 7 - 45 mg/l (25 °C, pH = 6 - 7, application of 1 000 mg/l, ASTM E1148 - 02).
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = 6.1 (23 °C, pH = 7.1, OECD 117).
<b>Vapour pressure</b>	1.47 Pa (38 °C, ASTM D2879).
<b>Density and/or relative density</b>	0.9 g/cm <sup>3</sup> (20 °C, OECD 109).
<b>Relative vapour density</b>	Not determined.
<b>Particle characteristics</b>	Does not apply to liquid.
<b>Subtilisin</b>	CAS: 9014-01-1
<b>Physical state</b>	Solid.
<b>Colour</b>	Not determined.
<b>Odour</b>	Not determined.
<b>Melting point/freezing point</b>	Not determined.
<b>Boiling point or initial boiling point and boiling range</b>	Not determined.
<b>Flammability</b>	Not determined.

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<b>Lower explosion limit</b>	Does not apply to solid.
<b>Upper explosion limit</b>	Does not apply to solid.
<b>Flash point</b>	Does not apply to solid.
<b>Auto-ignition temperature</b>	Does not apply to solid.
<b>Decomposition temperature</b>	Not determined, it is not a self-reactive substance or an organic peroxide or a substance that may decompose.
<b>pH</b>	Not determined.
<b>Kinematic viscosity</b>	Does not apply to solid.
<b>Solubility</b>	> 100 g/l (25 °C, pH = 7.8, literature).
<b>Partition coefficient n-octanol/water (log value)</b>	log Pow = -3.1 (25 °C, pH = 9.2, OECD 107).
<b>Vapour pressure</b>	Not determined.
<b>Density and/or relative density</b>	> 1.32 - < 1.42 g/cm <sup>3</sup> (20 °C, literature)
<b>Relative vapour density</b>	Does not apply to solid.
<b>Particle characteristics</b>	Not determined.

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

##### Mixture

##### **Explosives**

Data for the mixture are not available.

The mixture contains inorganic oxidising substances in category 3 but less than 30%.

##### **Flammable gases**

It is not gas.

##### **Aerosols**

It is not aerosol.

##### **Oxidising gases**

It is not gas.

##### **Gases under pressure**

It is not gas.

##### **Flammable liquids**

It is not liquid.

##### **Flammable solids**

Data for the mixture are not available.

The mixture does not contain substances classified as flammable solids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

##### **Self-reactive substances and mixtures**

Data for the mixture are not available.

The mixture does not contain substances classified as self-reactive substances or explosives or organic peroxides or oxidising, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

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### **Pyrophoric liquids**

It is not liquid.

### **Pyrophoric solids**

Data for the mixture are not available.

The mixture does not contain substances classified as pyrophoric solids or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Self-heating substances and mixtures**

Data for the mixture are not available.

The mixture does not contain substances classified as self-heating or pyrophoric substances or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the mixture are not available.

The mixture does not contain substances classified as substances, which emit flammable gases in contact with water or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Oxidising liquids**

It is not liquid.

### **Oxidizing solids**

Data for the mixture are not available.

The mixture is not classified as an oxidizing solid mixture, due to the low concentration of the component classified as oxidizing.

### **Organic peroxides**

Data for the mixture are not available.

The mixture does not contain substances classified as organic peroxides or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Corrosive to metals**

Data for the mixture are not available.

The solid mixture is not classified as corrosive to metals, due to the low concentration of the component classified as corrosive to metals.

### **Desensitised explosives**

Data for the mixture are not available.

The mixture does not contain substances classified as explosives or desensitised explosives, or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

**Sodium carbonate**

CAS: 497-19-8

### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Flammable gases**

It is not gas.

### **Aerosols**

It is not aerosol.

### **Oxidising gases**

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It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

It is not liquid.

### **Flammable solids**

The substance is not classified as flammable solid (EU method A.10).

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

It is not liquid.

### **Pyrophoric solids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The substance is soluble in water and forms a stable mixture with it.

### **Oxidising liquids**

It is not liquid.

### **Oxidizing solids**

Data for the substance are not available.

It is an inorganic substance does not contain chemical groups associated with oxidising properties.

### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### **Desensitised explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

**Disodium carbonate, compound with hydrogen peroxide (2:3)**

CAS: 15630-89-4

### **Explosives**

The substance is not classified as explosive (modified Trauzl test).



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### **Flammable gases**

It is not gas.

### **Aerosols**

It is not aerosol.

### **Oxidising gases**

It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

It is not liquid.

### **Flammable solids**

Data for the substance are not available.

The substance is not classified as flammable solid.

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

It is not liquid.

### **Pyrophoric solids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

Data for the substance are not available.

The substance is soluble in water and forms a stable mixture with it.

### **Oxidising liquids**

It is not liquid.

### **Oxidizing solids**

The substance is classified as oxidizing solid category 3.

Mean burning time = 27.8 - 62.4 s (rate to cellulose 4:1), 108 - 115 s (rate to cellulose 1:1).

### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is not classified as corrosive to metal.

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<b>Desensitised explosives</b>	
The substance is not classified as explosive (modified Trauzl test).	
<b>Disodium metasilicate</b>	ES: 229-912-9
<b>Explosives</b>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive properties.	
<b>Flammable gases</b>	
It is not gas.	
<b>Aerosols</b>	
It is not aerosol.	
<b>Oxidising gases</b>	
It is not gas.	
<b>Gases under pressure</b>	
It is not gas.	
<b>Flammable liquids</b>	
It is not liquid.	
<b>Flammable solids</b>	
Data for the substance are not available. The substance is not classified as flammable solid.	
<b>Self-reactive substances and mixtures</b>	
Data for the substance are not available. The substance does not contain chemical groups associated with explosive or self-reactive properties.	
<b>Pyrophoric liquids</b>	
It is not liquid.	
<b>Pyrophoric solids</b>	
Data for the substance are not available. The substance is stable in air, there is no spontaneous ignition.	
<b>Self-heating substances and mixtures</b>	
Data for the substance are not available. The substance is not classified as self-heating.	
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	
Data for the substance are not available. The substance is soluble in water and forms a stable mixture with it.	
<b>Oxidising liquids</b>	
It is not liquid.	
<b>Oxidizing solids</b>	
Data for the substance are not available. It is an inorganic substance does not contain chemical groups associated with oxidising properties.	

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### **Organic peroxides**

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### **Corrosive to metals**

Data for the substance are not available.

The substance is classified as corrosive to metal category 1.

### **Desensitised explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)**

CAS: 68439-50-9

### **Explosives**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Flammable gases**

It is not gas.

### **Aerosols**

It is not aerosol.

### **Oxidising gases**

It is not gas.

### **Gases under pressure**

It is not gas.

### **Flammable liquids**

The substance is not classified as flammable liquid according to the value of the flash point and boiling point.

### **Flammable solids**

It is not solid.

### **Self-reactive substances and mixtures**

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive or self-reactive properties.

### **Pyrophoric liquids**

Data for the substance are not available.

The substance is stable in air, there is no spontaneous ignition.

### **Pyrophoric solids**

It is not solid.

### **Self-heating substances and mixtures**

Data for the substance are not available.

The substance is not classified as self-heating.

### **Substances and mixtures, which emit flammable gases in contact with water**

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## TONGO Washing powder

Data for the substance are not available.

The chemical structure of the substance does not contain metals or metalloids.

The substance is miscible with water and forms a stable mixture with it.

### ***Oxidising liquids***

Data for the substance are not available.

It is an organic substance that does not contain oxygen, fluorine or chlorine, or these elements are chemically bounded only to carbon or hydrogen.

### ***Oxidizing solids***

It is not solid.

### ***Organic peroxides***

Data for the substance are not available.

The substance does not contain a bivalent group -O-O- with at least one organic radical.

### ***Corrosive to metals***

Data for the substance are not available.

The substance is not classified as corrosive to metal.

### ***Desensitised explosives***

Data for the substance are not available.

The substance does not contain chemical groups associated with explosive properties.

### **Subtilisin**

CAS: 9014-01-1

It is an enzyme consisting of amino acids which, due to its structure, does not present any danger according to its physico-chemical properties.

### **9.2.2. Other safety characteristics**

<b><i>Mechanical sensitivity</i></b>	Not determined, it is not an explosive substance.
<b><i>Self-accelerating polymerisation temperature</i></b>	Not determined, it is not a polymerising substance.
<b><i>Formation of explosible dust/air mixtures</i></b>	Not determined.
<b><i>Acid/alkaline reserve</i></b>	Not determined.
<b><i>Evaporation rate</i></b>	Not determined.
<b><i>Miscibility</i></b>	Not determined.
<b><i>Conductivity</i></b>	Not determined.
<b><i>Corrosiveness</i></b>	Not determined.
<b><i>Gas group</i></b>	Not determined, it is not gas.
<b><i>Redox potential</i></b>	Not determined.
<b><i>Radical formation potential</i></b>	Not determined.
<b><i>Photocatalytic properties</i></b>	Not determined.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

The mixture is stable under normal conditions of use. There aren't any hazardous reaction.

### **10.2. Chemical stability**

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Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions aren't known under normal conditions of use.

### 10.4. Conditions to avoid

Protect from air humidity and water.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Burning releases carbon oxides, silicon oxides, boron oxides and products of incomplete combustion.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Mixture

##### Acute toxicity

###### Oral

Data for the mixture are not available.  
The mixture is not classified by the additive formula.  
 $ATE_{\text{mixture}} > 13\,630 \text{ mg/kg}$ .

###### Dermal

Data for the mixture are not available.  
The mixture does not contain substances classified as an acute toxicity by dermal route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

###### Inhalation

Data for the mixture are not available.  
The mixture does not contain substances classified as an acute toxicity by inhalation route of exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

##### Skin corrosion/irritation

Data for the mixture are not available.  
The mixture is classified as skin irritant based on the general/specific concentration limits of substance(s).

##### Serious eye damage/irritation

Data for the mixture are not available.  
The mixture is classified as causes serious eye damage based on the general/specific concentration limits of substance(s).

##### Respiratory or skin sensitisation

Data for the mixture are not available.  
The mixture is not classified as a skin sensitizing according to the general/specific concentration limits of substance(s).  
EUH208 - Contains Subtilisin. May produce an allergic reaction.

##### Germ cell mutagenicity

Data for the mixture are not available.  
The mixture does not contain substances classified as mutagenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

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## TONGO Washing powder

### **Carcinogenicity**

Data for the mixture are not available.

The mixture does not contain substances classified as carcinogenicity or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Reproductive toxicity**

Data for the mixture are not available.

The mixture is not classified as toxic for reproduction according to the general/specific concentration limits of substance(s).

### **STOT – single exposure**

Data for the mixture are not available.

The mixture is not classified as toxic for specific target organs in a single exposure in category 3 according to the recommended concentration limits of substance(s).

### **STOT – repeated exposure**

Data for the mixture are not available.

The mixture does not contain substances classified as toxic for specific target organs in a repeated exposure or the concentration of substance(s) is lower than the limit for inclusion in Section 3.

### **Aspiration hazard**

Data for the mixture are not available.

The mixture is not classified as aspiration hazard according to the general/specific concentration limits of substance(s).

### **Other information**

See section 2 and 4.

### **Sodium carbonate**

CAS: 497-19-8

### **Acute toxicity**

**Oral** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> = 2 800 mg/kg (rat, female)

**Dermal** Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 2 000 mg/kg (rabbit, EPA 16 CFR 1500.40)

**Inhalation** Based on available data, the classification criteria are not met.  
LC<sub>50</sub> > 2 300 mg/m<sup>3</sup> (rat, male, aerosol, 2 hrs)

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

Mean erythema score = 0 and oedema = 0 (rabbit, 72 hrs., OECD 404).

### **Serious eye damage/irritation**

The substance classified as eye irritant.

Mean score of corneal opacity = 0, iritis = 0.25 (fully reversible after 72 hours), conjunctival redness = 1.67 (fully reversible after 72 hours), conjunctival oedema = 1.38 (fully reversible after 72 hours) (rabbit, 72 h, OECD 405).

### **Respiratory or skin sensitisation**

Data for the substance are not available.

### **Germ cell mutagenicity**



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## TONGO Washing powder

Based on available data, the classification criteria are not met.

Negative (OECD 471).

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

Data for the substance are not available.

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

Based on available data, the classification criteria are not met.

NOAEL > 10 mg/m<sup>3</sup> (human, inhalation, dust).

### **Aspiration hazard**

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

**Disodium carbonate, compound with hydrogen peroxide (2:3)**

CAS: 15630-89-4

### **Acute toxicity**

**Oral** The substance is classified in category 4.

LD<sub>50</sub> = 1 034 mg/kg (rat).

**Dermal** Based on available data, the classification criteria are not met.

LD<sub>50</sub> > 2 000 mg/kg (rabbit, EPA Guideline).

**Inhalation** Data for the substance are not available.

### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

Primary dermal irritation index PDII = 2.2 (4 hrs.), 1.2 (24 hrs.), 1 (96 hrs.), 0.2 (7 d.), 0 (14 d.) (rabbit).

### **Serious eye damage/irritation**

The substance classified as seriously damaging to the eyes.

Average primary eye irritation scores = 19.3 (1 hrs.), 103 (24 hrs.), 108.5 (48 hrs.), 47.6 (72 hrs.), 36 (96 hrs.) (rabbit).

### **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.

Not skin sensitising (guinea pig, Buechler test).

### **Germ cell mutagenicity**

Data for the substance are not available.

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

Data for the substance are not available.

### **STOT – single exposure**

Data for the substance are not available.

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### **STOT – repeated exposure**

Data for the substance are not available.

### **Aspiration hazard**

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

**Disodium metasilicate**

ES: 229-912-9

### **Acute toxicity**

#### **Oral**

Based on available data, the classification criteria are not met.  
LD<sub>50</sub> = 1 152 - 1 349 mg/kg (rat, female, toxicity based on corrosive effect, literature).

#### **Dermal**

Based on available data, the classification criteria are not met.  
LD<sub>50</sub> > 5 000 mg/kg (rat, EPA OPPTS 870.1200).

#### **Inhalation**

Based on available data, the classification criteria are not met.  
LC<sub>50</sub> > 2.06 mg/l (vapour, rat, 4 hrs, toxicity based on corrosive effect, EPA OPPTS 870.1300).

### **Skin corrosion/irritation**

The substance classified as skin corrosion in category 1B.

Corrosive - primary dermal irritation index (PDII) = 8 (not reversible), mean erythema score = 4 (not reversible) and edema = 4 (not reversible) (humidified, rabbit, OECD 404).

Irritant - primary dermal irritation index (PDII) = 3.67, mean erythema score = 2.33 and edema = 1.33 (50% aqueous solution, rabbit, OECD 404).

Slightly irritant - primary dermal irritation index (PDII) = 1.22, mean erythema score = 1.11 and edema = 0.11 (10% aqueous solution, rabbit, OECD 404).

### **Serious eye damage/irritation**

The substance classified as seriously damaging to the eyes.

### **Respiratory or skin sensitisation**

Based on available data, the classification criteria are not met.  
Not skin sensitising (mouse, OECD 429).

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.  
Negative (OECD 471, OECD 473, OECD 476).

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

Based on available data, the classification criteria are not met.  
NOAEL > 159 mg/kg/day (mortality, rat, female, oral, generation P0).

### **STOT – single exposure**

The substance may cause respiratory irritation.

### **STOT – repeated exposure**

Based on available data, the classification criteria are not met.  
NOAEL > 227 - 237 mg/kg/day (rat, oral, 90 days, OECD 408).

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<b>Aspiration hazard</b>	
The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm <sup>2</sup> /s or less at 40 °C.	
<b>Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)</b>	CAS: 68439-50-9
<b>Acute toxicity</b>	
<b>Oral</b>	Based on available data, the classification criteria are not met. LD <sub>50</sub> > 2 000 mg/kg (rat, OECD 401).
<b>Dermal</b>	Based on available data, the classification criteria are not met. LD <sub>50</sub> > 2 000 mg/kg (rabbit, OECD 402).
<b>Inhalation</b>	Based on available data, the classification criteria are not met. LC <sub>50</sub> > 1.6 mg/l (vapour, aerosol, 4 hrs., no death is observed, OECD 403).
<b>Skin corrosion/irritation</b>	
Based on available data, the classification criteria are not met. Mean erythema score = 1.4 (fully reversible after 14 days) and oedema = 0 (rabbit, 72 hrs., OECD 404).	
<b>Serious eye damage/irritation</b>	
Based on available data, the classification criteria are not met. Mean score of corneal opacity = 0, iritis = 0, conjunctival redness = 0.33 (not fully reversible after 72 hours), conjunctival oedema = 0 (rabbit, 72 h, OECD 405).	
<b>Respiratory or skin sensitisation</b>	
Based on available data, the classification criteria are not met. Not skin sensitising (guinea pig, OECD 406).	
<b>Germ cell mutagenicity</b>	
Based on available data, the classification criteria are not met. Negative (OECD 471, OECD 473, OECD 482).	
<b>Carcinogenicity</b>	
Data for the substance are not available.	
<b>Reproductive toxicity</b>	
Based on available data, the classification criteria are not met. NOAEL ≥ 250 mg/kg/day (reproductive toxicity, 25 % solution, rat, dermal, generation P0, OECD 416). NOAEL ≥ 250 mg/kg/day (reproductive and development toxicity, 25 % solution, rat, dermal, generation F1, OECD 416).	
<b>STOT – single exposure</b>	
Data for the substance are not available.	
<b>STOT – repeated exposure</b>	
Based on available data, the classification criteria are not met. NOAEL ≥ 500 mg/kg/day (systemic toxicity, rat, oral, 90 d., OECD 408).	
<b>Aspiration hazard</b>	
The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm <sup>2</sup> /s or less at 40 °C.	
<b>Subtilisin</b>	CAS: 9014-01-1

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## TONGO Washing powder

### **Acute toxicity**

**Oral** The substance is classified in category 4.  
LD<sub>50</sub> = 1 800 mg/kg (rat, OECD 401).

**Dermal** Data for the substance are not available.

**Inhalation** Data for the substance are not available.

### **Skin corrosion/irritation**

The substance classified as skin irritant according to harmonized classification.  
Mean erythema score = 1.3; 0; 1.3 (fully reversible) and oedema = 1; 0; 2.3 (fully reversible) (rabbit, 72 hrs., OECD 404).

### **Serious eye damage/irritation**

The substance classified as eye irritant according to harmonized classification.  
Mean score of corneal opacity = 0.7; 0.7; 1 (fully reversible after 72 hours), conjunctival oedema = 0.3; 0.3; 0.3 (fully reversible after 48 hours) (rabbit, 72 hrs., OECD 405).

### **Respiratory or skin sensitisation**

The substance is classified as respiratory sensitizer in category 1 according to harmonized classification.

### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.  
Negative (OECD 471, OECD 473, OECD 476).

### **Carcinogenicity**

Data for the substance are not available.

### **Reproductive toxicity**

Data for the substance are not available.

### **STOT – single exposure**

Data for the substance are not available.

### **STOT – repeated exposure**

Based on available data, the classification criteria are not met.  
NOAEL > 360 - < 891 mg/kg/day (body weight, food consumption, rat, oral, 90 d., OECD 408).

### **Aspiration hazard**

The substance is not a hydrocarbon or a chlorinated hydrocarbon with a kinematic viscosity of 20.5 mm<sup>2</sup>/s or less at 40 °C.

## **11.2. Information on other hazards**

Mixture do not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet and given in the list (established in accordance with Article 59(1) for having endocrine disrupting properties of REACH regulation.

Mixture do not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. There is no other relevant information on adverse health effects that is not required according to the classification criteria set out in CLP Regulation.

## **SECTION 12: Ecological information**

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## TONGO Washing powder

### 12.1. Toxicity

#### Mixture

Data for the mixture are not available.

#### Acute aquatic toxicity

The mixture is not classified as acute aquatic toxicity based on calculation according to the summation method.

Sum of concentration	L(E)C <sub>50m</sub>	Classification	M-factor
< 2.15 wt. %	0.295 mg/l	Aquatic Acute 1; H400	1
category 1		$\Sigma < 2.15$	

#### Chronic aquatic toxicity

The mixture classified as Aquatic Chronic 3; H412 based on calculation according to the summation method.

Sum of concentration	EqNOEC <sub>m</sub>	Classification	M-factor	
< 2.15 wt. %	0.02031 mg/l	Aquatic Chronic 2; H411	non relevant	
category	1	2	3	4
Σ	0	< 2.15	< 21.5	< 2.15

#### Sodium carbonate

CAS: 497-19-8

The substance is not classified as hazardous for the aquatic environment.

#### Fish

LC<sub>50</sub>, 96 hrs., Lepomis macrochirus: 300 mg/l (mortality).

#### Crustaceans

EC<sub>50</sub>, 48 hrs., Ceriodaphnia sp.: 200 - 227 mg/l (mobility).

#### Algae

EC<sub>50</sub>: 10 - 100 mg/l (estimated, data is assessment based on pH).

NOEC: 1 - 10 mg/l (estimated, data is assessment based on pH).

#### Disodium carbonate, compound with hydrogen peroxide (2:3)

CAS: 15630-89-4

The substance is not classified as hazardous for the aquatic environment.

#### Fish

LC<sub>50</sub>, 48 hrs., Pimephales promelas: 70.7 mg/l (mortality, literature).

#### Crustaceans

EC<sub>50</sub>, 48 hrs., Daphnia Pulex: 4.9 mg/l (mortality, US EPA TSCA Test Guidelines).

NOEC, 48 hrs., Daphnia Pulex: 2 mg/l (mortality, US EPA TSCA Test Guidelines).

#### Algae

Data for the substance are not available.

#### Disodium metasilicate

ES: 229-912-9

The substance is not classified as hazardous for the aquatic environment.

#### Fish

LC<sub>50</sub>, 96 hrs., Danio rerio: 210 mg/l (OECD 203).

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<b>Crustaceans</b>	
EC <sub>50</sub> , 48 hod., Daphnia Magna: 1 700 mg/l (OECD 202).	
<b>Algae</b>	
EC <sub>50</sub> , 72 hrs., Desmodesmus subspicatus: 207 mg/l (biomass, DIN 38412).	
EC <sub>0</sub> , 72 hrs., Desmodesmus subspicatus: > 345.4 mg/l (growth rate, DIN 38412).	
<b>Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)</b>	CAS: 68439-50-9
The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 3; H412.	
<b>Fish</b>	
LC <sub>50</sub> , 96 hrs., Danio rerio: 1.67 mg/l (mortality, EU Method C.1).	
NOEC, 30 d., Pimephales promelas: 0.28 mg/l (mortality).	
<b>Crustaceans</b>	
EC <sub>50</sub> , 48 hrs., Daphnia Magna: 0.53 mg/l (mobility).	
NOEC, 21 d., Daphnia Magna: 0.77 mg/l (reproduction).	
NOEC, 21 d., Daphnia Magna: 1.75 mg/l (immobility).	
<b>Algae</b>	
EC <sub>50</sub> , 72 hrs., Desmodesmus subspicatus: 0.778 mg/l (growth rate, OECD 201).	
EC <sub>50</sub> , 72 hrs., Desmodesmus subspicatus: 0.312 mg/l (biomass, OECD 201).	
EC <sub>10</sub> , 72 hrs., Desmodesmus subspicatus: 0.413 mg/l (growth rate, OECD 201).	
EC <sub>10</sub> , 72 hrs., Desmodesmus subspicatus: 0.516 mg/l (biomass, OECD 201).	
NOEC, 72 hrs., Desmodesmus subspicatus: 0.25 mg/l (growth rate, OECD 201).	
NOEC, 72 hrs., Desmodesmus subspicatus: 0.25 mg/l (biomass, OECD 201).	
<b>Subtilisin</b>	CAS: 9014-01-1
The substance is classified as Aquatic Acute 1; H400 (M = 1) and Aquatic Chronic 2; H411.	
<b>Fish</b>	
LC <sub>50</sub> , 96 hrs., Oncorhynchus mykiss: 14.6 - 17.7 mg/l (mortality, OECD 203).	
NOEC, 32 d., Pimephales promelas: 0.042 mg/l (mortality, OECD 210).	
<b>Crustaceans</b>	
EC <sub>50</sub> , 48 hrs., Daphnia Magna: 170 µg/l (mobility, OECD 202).	
NOEC, 21 d., Daphnia Magna: 0.019 mg/l (reproduction, OECD 211).	
<b>Algae</b>	
EC <sub>50</sub> , 72 hrs., Pseudokirchneriella subcapitata: 830 µg/l (growth rate, OECD 201).	
EC <sub>50</sub> , 72 hrs., Pseudokirchneriella subcapitata: 290 µg/l (biomass, OECD 201).	
NOEC, 72 hrs., Pseudokirchneriella subcapitata: 317 µg/l (growth rate, OECD 201).	
NOEC, 72 hrs., Pseudokirchneriella subcapitata: 41 µg/l (biomass, OECD 201).	
<b>12.2. Persistence and degradability</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
<b>Sodium carbonate</b>	CAS: 497-19-8
Not determined, it is an inorganic substance.	



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<b>Disodium carbonate, compound with hydrogen peroxide (2:3)</b>	CAS: 15630-89-4
Not determined, it is an inorganic substance.	
<b>Disodium metasilicate</b>	ES: 229-912-9
Not determined, it is an inorganic substance.	
<b>Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)</b>	CAS: 68439-50-9
Readily biodegradable: 95 % after 28 days (O <sub>2</sub> consumption, OECD 301 F).	
<b>Subtilisin</b>	CAS: 9014-01-1
Readily biodegradable: 102 % after 29 days (CO <sub>2</sub> evolution, OECD 301 B).	
<b>12.3. Bioaccumulative potential</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
<b>Sodium carbonate</b>	CAS: 497-19-8
Not determined, it is an inorganic substance.	
<b>Disodium carbonate, compound with hydrogen peroxide (2:3)</b>	CAS: 15630-89-4
Not determined, it is an inorganic substance.	
<b>Disodium metasilicate</b>	ES: 229-912-9
Not determined, it is an inorganic substance.	
<b>Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)</b>	CAS: 68439-50-9
log Pow = 6.1 (23 °C, pH = 7.1, OECD 117).	
<b>Subtilisin</b>	CAS: 9014-01-1
log Pow = -3.1 (25 °C, pH = 9.2, OECD 107).	
<b>12.4. Mobility in soil</b>	
<b>Mixture</b>	
Data for the mixture are not available.	
<b>Sodium carbonate</b>	CAS: 497-19-8
Not determined, it is an inorganic substance.	
<b>Disodium carbonate, compound with hydrogen peroxide (2:3)</b>	CAS: 15630-89-4
Not determined, it is an inorganic substance.	
<b>Disodium metasilicate</b>	ES: 229-912-9
Not determined, it is an inorganic substance.	
<b>Alcohols, C12-14, ethoxylated (1 - 2.5 moles ethoxylated)</b>	CAS: 68439-50-9
log Koc = 3.95 (25 °C, (Q)SAR method).	
<b>Subtilisin</b>	CAS: 9014-01-1
Data for the substance are not available.	
<b>12.5. Results of PBT and vPvB assessment</b>	

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Mixture do not contain substance(s) meeting the criteria for persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of REACH Regulation. The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation.

### 12.6. Endocrine disrupting properties

The mixture and its substances are not mentioned on the Candidate list for possible inclusion in Annex XIV of REACH at the date of the revision of the safety data sheet (established in accordance with Article 59(1) of REACH Regulation. Mixture do not contain the substance(s) identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### 12.7. Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Disposal methods of the substance or mixture and the contaminated packaging**

Dispose according to the applicable European and local regulations (eg. in a hazardous waste incinerator). **Do not empty unused product into drainage systems.** Do not contaminate ponds or ditches with the product or used container. Hand over the residual amounts and solutions to a licensed disposal company. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### **Possible waste code**

20 01 29\* - detergents containing hazardous substances (mixture), 15 01 10\* - packaging containing residues of or contaminated by hazardous substances (contaminated packaging), 15 01 02 - plastic packaging (clear packaging).

#### **Physical/chemical properties that may affect waste treatment options**

Not known.

#### **Special precautions recommended for waste management**

Not known.

#### **Waste legislation**

Directive 2008/98/EC on waste and repealing certain Directives, as amended.

## SECTION 14: Transport information

This product is not classified as a dangerous for transportation (ADR/RID, IMDG, ICAO/IATA).

### 14.1. UN number or ID number

Not given.

### 14.2. UN proper shipping name

Not given.

### 14.3. Transport hazard class(es)

Not given.

### 14.4. Packing group

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Not given.

### 14.5. Environmental hazards

It is not dangerous for the environment during transport.

### 14.6. Special precautions for user

Not given.

### 14.7. Maritime transport in bulk according to IMO instruments

Not available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals, as amended (REACH)

Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures, as amended (CLP)

Regulation No. 648/2004/EC on detergents, as amended

### 15.2. Chemical safety assessment

Has not been carried out for mixture.

## SECTION 16: Other information

### Reason for the revision of the safety data sheet

First edition.

### Key or legend to abbreviations and acronyms

Acute Tox. 4	Acute toxicity, cat. 4
Aquatic Acute 1	Acute aquatic hazard, cat. 1
Aquatic Chronic 2	Chronic aquatic hazard, cat. 2
Aquatic Chronic 3	Chronic aquatic hazard, cat. 3
Eye Dam. 1	Serious eye damage, cat. 1
Eye Irrit. 2	Eye irritation, cat. 2
Met. Corr. 1	Substance or mixture corrosive to metals, cat. 1
Ox. Sol. 3	Oxidising solid, cat. 3
Repr. 2	Reproductive toxicity, cat. 2
Resp. Sens. 1	Respiratory sensitization, cat. 1
Skin Corr. 1B	Skin corrosion, cat. 1B
Skin Irrit. 2	Skin irritation, cat. 2
STOT SE 3	Specific target organ toxicity - single exposure, cat. 3
M	Multiplying factor
ADR	Accord Dangereuses Route

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CLP	Regulation No. 1272/2008/EC, on Classification, Labelling and Packaging of substances and mixtures
DNEL	Derived No Effect Level
ICAO/IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
PBT	Persistent, bioaccumulative, toxic substance
PNEC	Predicted No Effect Concentration
REACH	Regulation No. 1907/2006/EC, concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
STOT	Specific target organ toxicity
vPvB	Very persistent and very bioaccumulative substance

### **Sources of key data used to compile the Safety Data Sheet**

European legislation, manufacturer's safety data sheet, registration dossier of substances.

### **List of H- and P- phrases**

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
P102	Keep out of reach of children.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P501	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### **Training advice**

According to SDS.

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### ***Other information***

Classification according to data from the manufacturer. The mixture is classified using calculation methods according to Regulation CLP and tests. Use only for the purposes designated by the manufacturer, will prevent health and environmental risks.

The information in this SDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

The safety data sheet is created in accordance with Regulation No. 2020/878/EC. There is no additional information in accordance with the local and national legislation of the Member State in the European Union, in the safety data sheet.

The safety data sheet was created by company LACHEPRA s.r.o.